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## Patent Abstracts of Japan

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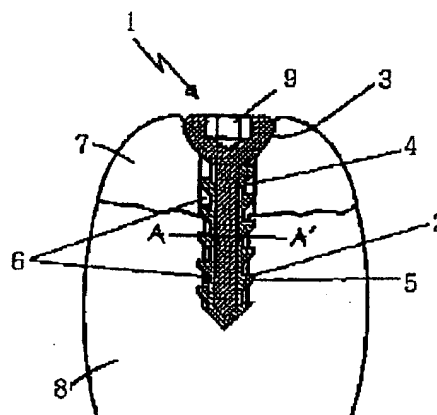
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TITLE : BONE FIXING SCREW



**ABSTRACT :** **PURPOSE:** To safely remove a screw without damaging a bone and to minimize a screw hole after removing the screw by providing a shaft body, which has a screw head at one end and made of a metal, with a screw thread made from a resin which is decomposed and absorbed in the living body.

**CONSTITUTION:** A bone screw 1 is composed of a metal-made shaft body 4 having a screw head 3 with a dent 9 into which a wrench or screwdriver is inserted and a screw thread 2 made from a resin which is decomposed and absorbed in the living body. As the stress deformation or creep deformation in age of resin is higher in the tensile direction than in the compressed direction, the bone screw 1 is more safely and securely fixed than those which is wholly made from resin. In a space 6 among the bone screw 1, a bone piece 7, and a bone 8, a new bone tissue is expected to form and the screw may be more securely fixed. When the screw is removed, the screw thread 2 is decomposed and absorbed and replaced with bone, or the screw is reduced in strength due to a decomposition degradation, so it is only necessary to remove the metal-made shaft body smaller than the bone screw which has been grafted first.

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